*Project Name:*

## Roundabout Design Parameters

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

| **Design Data** | |
|---|---|
| Design Class | |
| Design Year | |
| Mainline Design Speed (Posted Speed) | |
| Cross Road Design Speed (Posted Speed) | |
| Traffic Analysis | |
| Conceptual Approval | |
| Geometric Approval | |

| | **Reference/Date** | **Design Performance Objective** | **Determination** |
|---|---|---|---|
| Design Vehicle Turning Path | | | |
| | | | |
| Fastest Vehicle Paths | | | |
| | | | |
| Natural Vehicle Paths | | | |
| | | | |
| **Design Components** | | | |
| | | | |
| Inscribed Circle Diameter (ICD) | | | |
| | | | |
| Approach Alignment | | | |
| | | | |
| Entry | | | |
| | | | |
| Exit | | | |
| | | | |
| Central Island Diameter | | | |
| | | | |
| Truck Apron | | | |
| | | | |
| Superelevation and Grades | | | |
| | | | |
| Clear Zone | | | |



Updated: 5 - ’07 ks

*Project Name:*

## Roundabout Design Parameters Continued

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

| **Design Element** | **Reference/ Date** | **Design Performance Objective** | | | | **Determination** |
|---|---|---|---|---|---|---|
| **Approach From**…[Designer must include a section for each approach] | | | | | | |
| **Design Vehicle** | | | | | | |
| | | | | | | |
| **R1** - Entry Path Radius | | | | | | |
| Superelevation | | | | | | |
| Speed (mph) | | | | | | |
| | | | | | | |
| **R2** – Circulating Path Radius | | | | | | |
| Cross Slope | | | | | | |
| Speed (mph) | | | | | | |
| | | | | | | |
| **R3** – Exit Path Radius | | | | | | |
| Cross Slope | | | | | | |
| Speed (mph) | | | | | | |
| | | | | | | |
| **R4** – Left Turn Path Radius | | | | | | |
| Cross Slope | | | | | | |
| Speed (mph) | | | | | | |
| | | | | | | |
| **R5** – Right Turn Path Radius | | | | | | |
| Cross Slope | | | | | | |
| Speed (mph) | | | | | | |
| | | | | | | |
| Approach Stopping Sight Distance | | | | | | |
| Circulating Stopping Sight Distance | | | | | | |
| Exit Stopping Sight Distance | | | | | | |
| S1 – Entering Stream Sight Distance | | | | | | |
| S2 – Circulating Stream Sight Distance | | | | | | |



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*Project Name:*

## Roundabout Design Parameters Continued

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

| Design Element | Reference/Date | Design Performance Objective | Determination |
|---|---|---|---|
| Right-Turn Slip Lane | | | |
| | | | |
| Add and Drop or Bypass Lane | | | |
| | | | |
| Railroad Crossing | | | |
| | | | |
| Pedestrians | | | |
| | | | |
| Bicycles | | | |
| | | | |
| Signing and Pavement Marking | | | |
| | | | |
| Illumination | | | |
| | | | |
| Access, Parking, and Transit Facilities | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



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